Amendments to the Claims:

1. (Currently Amended): A method of forming a capacitor, comprising:

forming a first capacitor electrode over a semiconductor substrate; forming a capacitor dielectric region onto the first capacitor electrode, the capacitor dielectric region comprising an exposed exide containing oxide-containing surface;

treating the exposed exide-containing oxide-containing surface of the capacitor dielectric region with at least one of a borane or a silane; and depositing forming a second capacitor electrode over the treated exide containing oxide-containing surface, the second capacitor electrode comprising an inner metal surface contacting against the treated exide centaining oxide-containing surface.

- 2. (Original): The method of claim 1 wherein the first capacitor electrode consists essentially of semiconductive material.
- 3. (Original): The method of claim 1 wherein the first capacitor electrode consists essentially of metal.
- 4. (Currently Amended): The method of claim 1 wherein the exposed exide containing oxide-containing surface comprises hafnium oxide.

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- 5. (Currently Amended): The method of claim 1 wherein the exposed exide containing oxide-containing surface comprises aluminum oxide.
- 6. (Original): The method of claim 1 wherein the treating is with at least one borane.
- 7. (Original): The method of claim 6 wherein all borane used during the treating is void of halogen.
- 8. (Original): The method of claim 6 wherein the borane is selected from the group consisting of BH_3 , B_2H_6 , B_4H_{10} , B_5H_9 , B_6H_{10} and $B_{10}H_{14}$, and mixtures thereof.
- 9. (Original): The method of claim 1 wherein the treating is with at least one silane.
- 10. (Original): The method of claim 9 wherein all silane used during the treating is void of halogen.
- 11. (Original): The method of claim 9 wherein the silane is selected from the group consisting of SiH₄, Si₂H₆, Si₃H₈ and Si₄H₁₀, and mixtures thereof.

- 12. (Original): The method of claim 1 wherein any layer deposited by the treating is no more than 3 monolayers thick.
- 13. (Original): The method of claim 12 wherein no layer is deposited by the treating.
- 14. (Currently Amended): The method of claim 1 wherein the exposed exide containing oxide-containing surface comprises hafnium oxide, and wherein any layer deposited by the treating is no more than 3 monolayers thick.
- 15. (Currently Amended): The method of claim 1 wherein the exposed exide containing oxide-containing surface comprises aluminum oxide, and wherein any layer deposited by the treating is no more than 3 monolayers thick.
- 16. (Original): The method of claim 1 wherein the treating comprises a temperature from 200°C to 500°C, and a pressure from 1 Torr to 100 Torr.
- 17. (Original): The method of claim 1 wherein the treating is for at least 1 second.

- 18. (Original): The method of claim 1 wherein the treating is for at least 10 seconds.
- 19. (Original): The method of claim 1 wherein the inner metal surface comprises an elemental metal or an alloy of elemental metals.
- 20. (Original): The method of claim 19 wherein the inner metal surface comprises tungsten.
- 21. (Original): The method of claim 1 wherein the inner metal surface comprises a conductive metal compound.
- 22. (Original): The method of claim 21 wherein the inner metal surface comprises TiN.
- 23. (Original): The method of claim 1 wherein the second capacitor electrode consists essentially of metal.
- 24. (Original): The method of claim 1 wherein the treating is effective to reduce leakage current of the capacitor than would otherwise occur in the absence of said treating.

- 25. (Currently Amended): The method of claim 1 wherein the exposed exide surface oxide-containing surface comprises OH groups, the treating being effective to passivate said OH groups.
- 26. (Currently Amended): The method of claim 1 wherein the depositing the second capacitor electrode comprises using a halogen containing halogen-containing gas, the treating being effective to reduce halogen incorporation into the capacitor dielectric region than would otherwise occur in the absence of said treating.
 - 27. (Original): The method of claim 1 wherein,

forming the capacitor dielectric region comprises deposition of multiple dielectric layers; and

intermediate at least some of the dielectric layer depositions, treating an outer surface of the capacitor dielectric region being formed with at least one of a borane or a silane.

- 28. (Original): The method of claim 27 wherein the treating is with at least one borane.
- 29. (Original): The method of claim 27 wherein the treating is with at least one silane.

- 30. (Original): The method of claim 27 wherein the multiple dielectric layers comprise at least two different dielectric materials.
- 31. (Original): The method of claim 27 wherein the multiple dielectric layers are of the same dielectric material.
- 32. (Original): The method of claim 1 wherein the first capacitor electrode consists essentially of semiconductive material and the second capacitor electrode consists essentially of metal thereby forming an MIS capacitor.
- 33. (Original): The method of claim 1 wherein the first capacitor electrode consists essentially of metal and the second capacitor electrode consists essentially of metal thereby forming an MIM capacitor.

34. (Currently Amended): A method of forming a capacitor, comprising:

forming a first capacitor electrode over a semiconductor substrate; forming a capacitor dielectric region onto the first capacitor electrode, the capacitor dielectric region comprising an exposed exide containing oxide-containing surface;

treating the exposed exide-containing oxide-containing surface of the capacitor dielectric region with at least one of a borane or a silane at a temperature from 200°C to 500°C and a pressure from 1 Torr to 100 Torr for at least 1 second, any layer deposited by the treating being no more than 3 monolayers thick; and

depositing forming a second capacitor electrode consisting essentially of metal over the treated exide containing oxide-containing surface, the second capacitor electrode comprising an inner metal surface contacting against the treated exide containing oxide-containing surface.

- 35. (Currently Amended): The method of claim 34 wherein the exposed exide containing oxide-containing surface comprises hafnium oxide.
- 36. (Currently Amended): The method of claim 34 wherein the exposed oxide containing oxide-containing surface comprises aluminum oxide.

- 37. (Original): The method of claim 34 wherein the treating is with at least one borane.
- 38. (Original): The method of claim 37 wherein all borane used during the treating is void of halogen.
- 39. (Original): The method of claim 37 wherein the borane is selected from the group consisting of BH₃, B_2H_6 , B_4H_{10} , B_5H_9 , B_6H_{10} and $B_{10}H_{14}$, and mixtures thereof.
- 40. (Original): The method of claim 34 wherein the treating is with at least one silane.
- 41. (Original): The method of claim 40 wherein all silane used during the treating is void of halogen.
- 42. (Original): The method of claim 40 wherein the silane is selected from the group consisting of SiH_4 , Si_2H_6 , Si_3H_8 and Si_4H_{10} , and mixtures thereof.
- 43. (Original): The method of claim 34 wherein no layer is deposited by the treating.

- 44. (Original): The method of claim 34 wherein the treating is for at least 10 seconds.
- 45. (Original): The method of claim 34 wherein the inner metal surface comprises an elemental metal or an alloy of elemental metals.
- 46. (Original): The method of claim 45 wherein the inner metal surface comprises tungsten.
- 47. (Original): The method of claim 34 wherein the inner metal surface comprises a conductive metal compound.
- 48. (Original): The method of claim 47 wherein the inner metal surface comprises TiN.
- 49. (Original): The method of claim 34 wherein the treating is effective to reduce leakage current of the capacitor than would otherwise occur in the absence of said treating.
- 50. (Currently Amended): The method of claim 34 wherein the exposed exide-surface oxide-containing surface comprises OH groups, the treating being effective to passivate said OH groups.

- 51. (Currently Amended): The method of claim 34 wherein the depositing the second capacitor electrode comprises using a halogen containing halogen-containing gas, the treating being effective to reduce halogen incorporation into the capacitor dielectric region than would otherwise occur in the absence of said treating.
 - 52. (Original): The method of claim 34 wherein,

forming the capacitor dielectric region comprises deposition of multiple dielectric layers; and

intermediate at least some of the dielectric layer depositions, treating an outer surface of the capacitor dielectric region being formed with at least one of a borane or a silane.

- 53. (Original): The method of claim 52 wherein the multiple dielectric layers comprise at least two different dielectric materials.
- 54. (Original): The method of claim 52 wherein the multiple dielectric layers are of the same dielectric material.

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97. (New): The method of claim 12 wherein a layer no more than 3 monolayers thick is deposited by the treating.

- 98. (New): The method of claim 34 wherein a layer no more than 3 monolayers thick is deposited by the treating.
 - 99. (New): A method of forming a capacitor, comprising:

forming a first capacitor electrode over a semiconductor substrate, the first capacitor electrode comprising an exposed metal surface;

treating the exposed metal surface of the first capacitor electrode with at least one of a borane or a silane;

forming a capacitor dielectric region onto the first capacitor electrode, the capacitor dielectric region comprising an oxide-containing surface received contacting against the treated metal surface of the first capacitor electrode, the capacitor dielectric region comprising an exposed oxide-containing surface;

treating the exposed oxide-containing surface of the capacitor dielectric region with at least one of a borane or a silane; and

forming a second capacitor electrode over the treated oxide-containing surface, the second capacitor electrode comprising an inner metal surface contacting against the treated oxide-containing surface.

100. (New): A method of forming a capacitor, comprising:

forming a first capacitor electrode consisting essentially of metal over a semiconductor substrate, the first capacitor electrode comprising an exposed metal surface;

treating the exposed metal surface of the first capacitor electrode with at least one of a borane or a silane at a temperature from 200°C to 500°C and a pressure from 1 Torr to 100 Torr for at least 1 second, any layer deposited by the treating being no more than 3 monolayers thick.;

forming a capacitor dielectric region onto the first capacitor electrode, the capacitor dielectric region comprising an oxide-containing surface received contacting against the treated metal surface of the first capacitor electrode, the capacitor dielectric region comprising an exposed oxide-containing surface; and

treating the exposed oxide-containing surface of the capacitor dielectric region with at least one of a borane or a silane at a temperature from 200°C to 500°C and a pressure from 1 Torr to 100 Torr for at least 1 second, any layer deposited by the treating being no more than 3 monolayers thick; and

forming a second capacitor electrode consisting essentially of metal over the treated oxide-containing surface, the second capacitor electrode comprising an inner metal surface contacting against the treated oxide-containing surface.